

Title (en)  
System for drainage of cerebrospinal fluid

Title (de)  
Liquor-Drainagesystem

Title (fr)  
Système de drainage de fluide cephalo-rachidien

Publication  
**EP 1749549 A1 20070207 (DE)**

Application  
**EP 05016789 A 20050802**

Priority  
EP 05016789 A 20050802

Abstract (en)  
Fluid drainage system (1) has fluid supply line (8) and a pressure sensor (10) to determine the pressure in the fluid supply line. Fluid drainage system comprises a pump (5), which pumps down the cerebrospinal fluid depending on the predetermined operating parameters and the measurement of the operating measured values. An independent claim is also included for the method for the drainage of cerebrospinal fluid.

IPC 8 full level  
**A61M 27/00** (2006.01); **A61B 5/03** (2006.01); **A61M 1/00** (2006.01); **F04B 43/12** (2006.01)

CPC (source: EP US)  
**A61M 1/73** (2021.05 - EP US); **A61M 1/74** (2021.05 - EP US); **A61M 27/006** (2013.01 - EP US); **F04B 43/1253** (2013.01 - EP US); **A61B 5/031** (2013.01 - EP US); **A61M 2210/0693** (2013.01 - EP US); **F04B 2205/01** (2013.01 - EP US)

Citation (applicant)  
• DE 29621904 U1 19970130 - DISPOMEDICA GMBH [DE]  
• DE 10317308 A1 20041125 - SMITHS MEDICAL DEUTSCHLAND [DE]  
• DE 3127882 A1 19830203 - MORINGLANE JEAN RICHARD DR  
• DE 69331185 T2 20020718 - EDWARDS LIFESCIENCES CORP [US]

Citation (search report)  
• [X] US 6336924 B1 20020108 - LECUYER ALAIN [FR], et al  
• [X] US 2003004495 A1 20030102 - SAUL TOM A [US]  
• [X] US 4904237 A 19900227 - JANESE WOODROW W [US]  
• [X] WO 0207596 A1 20020131 - MEDTRONIC INC [US]  
• [A] EP 0982048 A1 20000301 - LEONHARDT STEFFEN DR ING [DE], et al  
• [X] YOON H J ET AL: "Micro devices for a cerebrospinal fluid (CSF) shunt system", 1 February 2004, SENSORS AND ACTUATORS A, ELSEVIER SEQUOIA S.A., LAUSANNE, CH, PAGE(S) 68-76, ISSN: 0924-4247, XP004486548

Cited by  
EP3020973A1; EP3723824A4; CN107096078A; US8361011B2; US8679048B2; WO2010112555A1; US11865285B2; US9074920B2; US9357950B2; US8109899B2

Designated contracting state (EPC)  
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

Designated extension state (EPC)  
AL BA HR MK YU

DOCDB simple family (publication)  
**EP 1749549 A1 20070207; EP 1749549 B1 20080130**; AT E385194 T1 20080215; AU 2006275211 A1 20070208; CA 2612440 A1 20070208; CA 2612440 C 20131126; DE 502005002730 D1 20080320; ES 2303159 T3 20080801; JP 2009502374 A 20090129; JP 4851520 B2 20120111; US 2008033400 A1 20080207; US 2014066903 A1 20140306; US 8608716 B2 20131217; US 9717890 B2 20170801; WO 2007014582 A1 20070208

DOCDB simple family (application)  
**EP 05016789 A 20050802**; AT 05016789 T 20050802; AU 2006275211 A 20060324; CA 2612440 A 20060324; DE 502005002730 T 20050802; EP 2006002730 W 20060324; ES 05016789 T 20050802; JP 2008524367 A 20060324; US 201314076543 A 20131111; US 81889307 A 20070615